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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/602,981	06/24/2003	John D. Roback	050508-1031	2039
²⁴⁵⁰⁴ 7590 01/24/2008 THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP 600 GALLERIA PARKWAY, S.E.			EXAMINER	
			HANDY, DWAYNE K	
-	STE 1500 ATLANTA, GA 30339-5994		ART UNIT	PAPER NUMBER
7112711171, 0			1797	
			MAIL DATE	DELIVERY MODE
			01/24/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/602,981	ROBACK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Dwayne K. Handy	1797				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period way reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 31 O	ctober 2007.					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims	·					
4) ⊠ Claim(s) <u>1,3,5,8,10-13,15,18-29,31,33,35-45,4</u> 4a) Of the above claim(s) is/are withdray 5) ⊠ Claim(s) <u>15,18-22 and 39-45</u> is/are allowed. 6) ⊠ Claim(s) <u>1,3,5,8,10-13,23-29,31,33,35-38,47 a</u> 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration. Ind 48 is/are rejected.	plication.				
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the liderawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)	,, (**)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1, 3, 5, 8, 10-13 and 47 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 1 and 47 contain the limitation of "the sample separation system" but lack antecedent basis for this limitation
- 3. Claims 23-29, 31, 33, 35-38 and 48 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 23 and 48 contain the limitation of the filter material causing the reacted components in the sample to spread out evenly over the top surface of the material. Claim 23 contains the additional limitation of the filter substantially preventing interacted components from passing through it. While these limitations may be found in other claims that have not been rejected, claims 23 and 48 also contain the limitation of the filter material having a pore size "from about 0.1 microns to about 3 microns". In the Specification (page 11, lines 11-20), Applicant has disclosed that the pore size required to cause the sample to spread across the filter is approximately 0.2 microns to approximately 1.2 microns. Therefore, it is unclear to the Examiner as to how a filter having a pore size greater than

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1.2 microns can meet the limitation of the filter spreading across the filter. The Examiner submits that a pore size greater than 1.2 micron would not allow for the sample to be spread out over the surface of the filter as required by the claim.

Allowable Subject Matter

- 4. Claims 15, 18-22 and 39-45 are allowed.
- 5. The following is a statement of reasons for the indication of allowable subject matter: Claim 39 recites a methods for immunological assay that includes the steps of providing a vessel bottom having an uneven surface and filter, mixing a sample with a reagent in the vessel, spreading the sample mixture over the top surface of the filter material while preventing reacted components from passing through the filter, and analyzing the sample mixture by flow cytometry to determine the presence of evidence of agglutination reactions. The filter material provides the uneven surface and is configured to spread the sample mixture over the top surface of the filter material while preventing reacted components from passing through the filter.

Claim 15 recites an immunological assay system. The system is comprised of a vessel for containing an assay sample, an incubator, a dilute concentration of sample, a dilute concentration of reagent, an image acquisition system designed to detect the presence of evidence of agglutination reactions consisting of a flow or capillary cytometer in close proximity to the sample, and a centrifugation system. *The filter material provides the uneven surface and is configured to spread the sample*

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mixture over the top surface of the filter material while preventing reacted components from passing through the filter.

The Examiner considers Yaremko to be the closest prior art. Yaremko teaches a method and system having a microcolumn for separation, incubator, centrifuge and imaging system but does not teach the filter material as claimed by Applicant in the amended claims.

6. Claims 1, 3, 5, 8, 10-13, 23-29, 31, 33, 35-38 and 47 would be allowable if properly amended to overcome the 112, 2nd Paragraph rejections listed above. Claims 1, 47 and 48 recite assay systems similar to that of claim 15 that contain the filter limitation cited in bold above. The prior art does not contain nor suggest the filter limitation. Claim 23 recites a method similar to that of claim 39 that includes use of the filter.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dwayne K. Handy whose telephone number is (571)-272-1259. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on (571)-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DKH January 22, 2008

LYLE A. ALEXANDER
PRIMARY EXAMINER